

Claims:

The following list of claims replaces all previous lists of claims.

Claims 1. – 4. (cancelled)

5. (currently amended) A parameter estimator comprising:

correlation logic for determining, using a dynamically variable integration time, a correlation function representing the correlation between a signal and one or more shifted versions of an identification code; and

analysis logic for analyzing the correlation function and estimating, responsive thereto, one or more parameter(s) relating to the signal, wherein the parameter estimator is configured to determine an integration time from an analysis of a correlation function derived from the signal using a default integration time.

Claims 6. – 23. (cancelled)

24.(currently amended) A method of estimating one or more parameter(s) of a signal using a dynamically variable integration time comprising:

determining, using a first integration time, a first correlation function representing the correlation between a signal and one or more shifted versions of an identification code;

attempting to estimate, responsive to the first correlation function, one or more parameter(s) relating to the signal; and

if the attempt is unsuccessful:

determining, using a second integration time which may differ from the first integration time, a second correlation function representing the correlation between the signal and one or more shifted versions of the identification code;

attempting to estimate, responsive to the second correlation function, the one or more parameter(s) relating to the signal; and

The method of claim 16 further comprising iterating until the one or more parameter(s) are estimated, or it is determined that the one or more parameter(s) cannot be estimated from the signal.

25. (original) A method of estimating one or more parameter(s) relating to signal using a dynamically variable integration time comprising:

determining, using a first integration time, a first correlation function representing the correlation between a signal and an identification code;

determining, responsive to the first correlation function, a second integration time which may differ from the first integration time;

determining, using the second integration time, a second correlation function representing the correlation between the signal and the identification code; and

attempting to estimate, responsive to the second correlation function, one or more parameter(s) relating to the signal.

26. (original) The method of claim 25 wherein the signal is a pilot signal.

27. (cancelled)

28. (original) The method of claim 25 wherein the second integration time is of shorter duration than the first.

29. (original) The method of claim 25 wherein the second integration time is of longer duration than the first.

30. (original) The method of claim 25 wherein the one or more parameter(s) include a time of arrival (TOA) parameter.

31. (original) The method of claim 30 wherein the one or more parameter(s) include root mean squared error (RMSE) for the TOA parameter.

32. (cancelled)

33. (original) The method of claim 25 further comprising iterating until the one or more parameter(s) are estimated, or it is determined that the one or more parameter(s) cannot be estimated from the signal.

Claims 34. – 35. (cancelled)

36. (currently amended) A method of estimating one or more parameter(s) relating to signal using a dynamically variable integration time comprising:  
a step for determining, using a first integration time, a first correlation function representing the correlation between a signal and an identification code;  
a step for determining, responsive to the first correlation function, a second integration time which may differ from the first integration time;  
a step for determining, using the second integration time, a second correlation function representing the correlation between the signal and the identification code;  
and  
a step for attempting to ~~estimating estimate~~, responsive to the second correlation function, one or more parameter(s) relating to the signal.

Claims 37. – 39. (cancelled)

40. (newly presented) A processor-readable medium including instructions stored thereon for estimating one or more parameter(s) of a signal using a dynamically variable integration time, comprising:  
instructions for determining, using a first integration time, a first correlation function representing the correlation between a first signal and one or more shifted versions of a first identification code;  
instructions for estimating, responsive to the first correlation function, one or more parameter(s) relating to the first signal;  
instructions for determining, using a second integration time which may differ from the first integration time, a second correlation function representing the correlation between a second signal and one or more shifted versions of a second identification code; and  
instructions for estimating, responsive to the second correlation function, one or more parameter(s) relating to the second signal.

41. (newly presented) A processor-readable medium including instructions stored thereon for estimating one or more parameter(s) of a signal using a dynamically variable integration time, comprising:

instructions for determining, using a first integration time, a first correlation function representing the correlation between a signal and one or more shifted versions of an identification code;

instructions for attempting to estimate, responsive to the first correlation function, one or more parameter(s) relating to the signal; and

if the attempt is unsuccessful:

instructions for determining, using a second integration time which may differ from the first integration time, a second correlation function representing the correlation between the signal and one or more shifted versions of the identification code; and

instructions for attempting to estimate, responsive to the second correlation function, the one or more parameter(s) relating to the signal.

42. (newly presented) A processor-readable medium including instructions stored thereon for estimating one or more parameter(s) relating to signal using a dynamically variable integration time, comprising:

instructions for determining, using a first integration time, a first correlation function representing the correlation between a signal and an identification code;

instructions for determining, responsive to the first correlation function, a second integration time which may differ from the first integration time;

instructions for determining, using the second integration time, a second correlation function representing the correlation between the signal and the identification code; and

instructions for attempting to estimate, responsive to the second correlation function, one or more parameter(s) relating to the signal.

43. (newly presented) A server including instructions stored thereon for estimating one or more parameter(s) of a signal using a dynamically variable integration time, comprising:

instructions for determining, using a first integration time, a first correlation function representing the correlation between a first signal and one or more shifted versions of a first identification code;

instructions for estimating, responsive to the first correlation function, one or more parameter(s) relating to the first signal;

instructions for determining, using a second integration time which may differ from the first integration time, a second correlation function representing the correlation between a second signal and one or more shifted versions of a second identification code; and

instructions for estimating, responsive to the second correlation function, one or more parameter(s) relating to the second signal.

44. (newly presented) A server including instructions stored thereon for estimating one or more parameter(s) of a signal using a dynamically variable integration time, comprising:

instructions for determining, using a first integration time, a first correlation function representing the correlation between a signal and one or more shifted versions of an identification code;

instructions for attempting to estimate, responsive to the first correlation function, one or more parameter(s) relating to the signal; and

if the attempt is unsuccessful:

instructions for determining, using a second integration time which may differ from the first integration time, a second correlation function representing the correlation between the signal and one or more shifted versions of the identification code; and

instructions for attempting to estimate, responsive to the second correlation function, the one or more parameter(s) relating to the signal.

45. (newly presented) A server including instructions stored thereon for estimating one or more parameter(s) relating to signal using a dynamically variable integration time, comprising:

instructions for determining, using a first integration time, a first correlation function representing the correlation between a signal and an identification code;

instructions for determining, responsive to the first correlation function, a second integration time which may differ from the first integration time;

instructions for determining, using the second integration time, a second correlation function representing the correlation between the signal and the identification code; and

instructions for attempting to estimate, responsive to the second correlation function, one or more parameter(s) relating to the signal.